

Process and device for the parallel preparation of at least
4n oligonucleotides

The present invention relates to a process and a device for
5 the parallel preparation of at least 4n oligonucleotides.

DE 42 06 488 A1 discloses a process and a device for the
preparation of oligonucleotides. The known device has four
bars one above the other, the contact surfaces of which are
10 worked by grinding and polishing such that the bars can be
displaced relative to one another without a gap. One of
the bars contains reactions spaces which can be filled and
emptied via entry and exit lines in the other bars. The
individual reaction spaces are filled successively with
15 reagents. In order for the said contact surfaces of the
displaceable bars to be sealed well with respect to one
another, very precise working of these contact surfaces is
necessary and the bars must be made of wear-resistant
material, for example of stainless steel or of particular
20 glass materials.

The demand for oligonucleotides is increasing constantly
and there is therefore the desire to prepare the highest
possible number of oligonucleotides inexpensively, in a
25 short time and with a high quality. The oligonucleotides
here can be the same or different.

The invention is therefore based on the object of providing
an improved process and an improved device for the
30 preparation of oligonucleotides which takes into account
the abovementioned desire.

This object is achieved according to the invention by the
process described in patent claim 1 for the parallel
35 preparation of at least 4n oligonucleotides. In the
process according to the invention, at least four inserts
each with n reaction vessels ($n \geq 1$) are arranged on or in
a plate such that a first insert is at a first station, a

Okay to enter substitute
Specification
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